

Title (en)

Enhancing the expression of genes in microorganisms.

Title (de)

Erhöhung der Expression von Genen in Mikroorganismen.

Title (fr)

Augmentation d'expression de gènes dans les micro-organismes.

Publication

EP 0227260 A1 19870701 (EN)

Application

EP 86308356 A 19861027

Priority

- US 79135085 A 19851025
- US 92134386 A 19861020

Abstract (en)

A bacterial cell is transformed with a gene encoding a desired product and with an enhancing DNA sequence capable of enhancing the production of the desired product in the bacterial cell. The enhancing DNA sequence is capable of enhancing the production of an endogenous protease in a Gram-positive bacterial cell.

IPC 1-7

C12N 5/00; C12N 9/26; C12N 9/50; C12N 15/00; C12P 19/34

IPC 8 full level

C07K 14/58 (2006.01); **C12N 5/00** (2006.01); **C12N 9/26** (2006.01); **C12N 9/28** (2006.01); **C12N 9/50** (2006.01); **C12N 9/54** (2006.01); **C12N 15/00** (2006.01); **C12N 15/67** (2006.01); **C12N 15/75** (2006.01); **C12P 19/34** (2006.01)

CPC (source: EP US)

C07K 14/58 (2013.01 - EP US); **C12N 9/2417** (2013.01 - EP US); **C12N 9/54** (2013.01 - EP US); **C12N 15/67** (2013.01 - EP US); **C12N 15/75** (2013.01 - EP US); **C07K 2319/00** (2013.01 - EP US); **C07K 2319/02** (2013.01 - EP US)

Citation (search report)

- GB 2142336 A 19850116 - SQUIBB & SONS INC
- EP 0146743 A2 19850703 - TEIJIN LTD [JP]
- EP 0174785 A1 19860319 - CETUS CORP [US]
- EP 0154566 A2 19850911 - TAISHO PHARMA CO LTD [JP]
- WO 8300702 A1 19830303 - UNIVERSITY PATENTS INC [US]
- EP 0074553 A2 19830323 - UNIV ROCHESTER [US]
- EP 0133756 A2 19850306 - GENEX CORP [US]
- EP 0108301 B1 19891123
- EP 0034470 A2 19810826 - CPC INTERNATIONAL INC [US]
- [XPD] JOURNAL OF BACTERIOLOGY, vol. 166, no. 1, April 1986, (Washington DC) M.YANG et al."Identification of the Pleiotropic sac Q Gene of Bacillus subtilis" pages 113-119

Cited by

EP0285949A3; EP0351717A3; CN1080307C; FR2618453A1; EP0301954A3; FR2621597A1; EP0261009A1; EP2000477A1; US8551732B2; WO9419471A1; WO9216642A1; WO2008148575A3; WO9203561A1; WO8801295A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0227260 A1 19870701; EP 0227260 B1 19930414; AT E88216 T1 19930415; CA 1313152 C 19930126; DE 3688282 D1 19930519; DE 3688282 T2 19931118; DK 509886 A 19870426; DK 509886 D0 19861024; US 5017477 A 19910521

DOCDB simple family (application)

EP 86308356 A 19861027; AT 86308356 T 19861027; CA 521317 A 19861024; DE 3688282 T 19861027; DK 509886 A 19861024; US 92134386 A 19861020